J. Lee

1632

CRF Errors Corrected by th STIC S ms Branch

Serial Number: 09/491,974

CRF Processing Date: 9/26/2000
Edited by: _____
Verified by: _____ (STIC staff)

ENTERED

RECEIVED

OCT 0 4 2000

TECH CENTER 1600/2900

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: _____
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____ .
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
- ☑ Deleted: ☑ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____ .
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☐ Other: _____

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

1632

```
RAW SEQUENCE LISTING              DATE: 09/26/2000
PATENT APPLICATION:  US/09/491,974   TIME: 16:43:00

Input Set : A:\Sequence Listing.TXT
Output Set: N:\CRF3\09262000\I491974.raw
```

```
     9 <110> APPLICANT: U.S. Medical Research Institute of Infectious Diseases
    10        Schmaljohn, Connie S.
    11        Hooper, J. W.
    13 <120> TITLE OF INVENTION: DNA Vaccines Against Hantavirus Infections
    15 <130> FILE REFERENCE: Army-142
    17 <140> CURRENT APPLICATION NUMBER: 09/491,974
C--> 19 <141> CURRENT FILING DATE: 2000-07-27
    21 <150> PRIOR APPLICATION NUMBER: US 60/117,680
    23 <151> PRIOR FILING DATE: 1999-01-29
    25 <160> NUMBER OF SEQ ID NOS: 4
    27 <170> SOFTWARE: Microsoft Word, Office 97, IBM compatible
```

ERRORED SEQUENCES

```
   397 <210> SEQ ID NO: 4
   399 <211> LENGTH: 6050
   400 <212> TYPE: DNA
   401 <213> ORGANISM: artificial sequence
W--> 402 <220> FEATURE:
   403 <223> OTHER INFORMATION: /note="S genome segment from SEOV, strain SR-11, subcloned into DNA
vector pWRG7077"
W--> 404 <400> SEQUENCE: 4
   405 ggggggggggg ggcgctgagg tctgcctcgt gaagaaggtg     40
   406 ttgctgactc ataccaggcc tgaatcgccc catcatccag     80
   407 ccagaaagtg agggagccac ggttgatgag agctttgttg    120
   408 taggtggacc agttggtgat tttgaacttt tgctttgcca    160
   409 cggaacggtc tgcgttgtcg ggaagatgcg tgatctgatc    200
   410 cttcaactca gcaaaagttc gatttattca acaaagccgc    240
   411 cgtcccgtca agtcagcgta atgctctgcc agtgttacaa    280
   412 ccaattaacc aattctgatt agaaaaactc atcgagcatc    320
   413 aaatgaaact gcaatttatt catatcagga ttatcaatac    360
   414 catattttttg aaaaagccgt ttctgtaatg aaggagaaaa    400
   415 ctcaccgagg cagttccata ggatggcaag atcctggtat    440
   416 cggtctgcga ttccgactcg tccaacatca atacaaccta    480
   417 ttaatttccc ctcgtcaaaa ataaggttat caagtgagaa    520
   418 atcaccatga gtgacgactg aatccggtga gaatggcaaa    560
   419 agcttatgca tttctttcca gacttgttca acaggccagc    600
   420 cattacgctc gtcatcaaaa tcactcgcat caaccaaacc    640
   421 gttattcatt cgtgattgcg cctgagcgag acgaaatacg    680
   422 cgatcgctgt taaaaggaca attacaaaca ggaatcgaat    720
   423 gcaaccggcg caggaacact gccagcgcat caacaatatt    760
   424 ttcacctgaa tcaggatatt cttctaatac ctggaatgct    800
   425 gttttcccgg ggatcgcagt ggtgagtaac catgcatcat    840
   426 caggagtacg gataaaatgc ttgatggtcg gaagaggcat    880
   427 aaattccgtc agccagttta gtctgaccat ctcatctgta    920
   428 acatcattgg caacgctacc tttgccatgt ttcagaaaca    960
   429 actctggcgc atcgggcttc ccatacaatc gatagattgt   1000
```

```
430 cgcacctgat tgcccgacat tatcgcgagc ccatttatac  1040
431 ccatataaat cagcatccat gttggaattt aatcgcggcc  1080
432 tcgagcaaga cgtttcccgt tgaatatggc tcataacacc  1120
433 ccttgtatta ctgtttatgt aagcagacag ttttattgtt  1160
434 catgatgata tattttatc ttgtgcaatg taacatcaga  1200
435 gattttgaga cacaacgtgg ctttcccccc cccccggca   1240
436 tgcctgcagg tcgacataaa tcaatattgg ctattggcca  1280
437 ttgcatacgt tgtatctata tcataatatg tacatttata  1320
438 ttggctcatg tccaatatga ccgccatgtt gacattgatt  1360
439 attgactagt tattaatagt aatcaattac ggggtcatta  1400
440 gttcatagcc catatatgga gttccgcgtt acataactta  1440
441 cggtaaatgg cccgcctcgt gaccgcccaa cgacccccgc  1480
442 ccattgacgt caataatgac gtatgttccc atagtaacgc  1520
443 caatagggac tttccattga cgtcaatggg tggagtattt  1560
444 acggtaaact gcccacttgg cagtacatca agtgtatcat  1600
445 atgccaagtc cggcccccta ttgacgtcaa tgacggtaaa  1640
446 tggcccgcct ggcattatgc ccagtacatg accttacggg  1680
447 actttcctac ttggcagtac atctacgtat tagtcatcgc  1720
448 tattaccatg gtgatgcggt tttggcagta caccaatggg  1760
449 cgtggatagc ggtttgactc acggggattt ccaagtctcc  1800
450 accccattga cgtcaatggg agtttgtttt ggcaccaaaa  1840
451 tcaacgggac tttccaaaat gtcgtaataa ccccgccccg  1880
452 ttgacgcaaa tgggcggtag gcgtctacgg tgggaggtct  1920
453 atataagcag agctcgttta gtgaaccgtc agatcgcctg  1960
454 gagacgccat ccacgctgtt ttgacctcca tagaagacac  2000
455 cgggaccgat ccagcctccg cggcgggaa cggtgcattg   2040
456 gaacgcggat tccccgtgcc aagagtgacgt aagtaccgc  2080
457 ctatagactc tataggcaca cccctttggc tcttatgcat  2120
458 gctatactgt ttttggcttg gggcctatac accccgctc   2160
459 cttatgctat aggtgatggt atagcttagc ctataggtgt  2200
460 gggttattga ccattattga ccactcccct attggtgacg  2240
461 atactttcca ttactaatcc ataacatggc tctttgccac  2280
462 aactatctct attggctata tgccaatact ctgtccttca  2320
463 gagactgaca cggactctgt atttttacag gatgggtcc   2360
464 catttattat ttacaaattc acatatacaa caacgccgtc  2400
465 ccccgtgccc gcagttttta ttaaacatag cgtgggatct  2440
466 ccacgcgaat ctcgggtacg tgttccggac atgggctctt  2480
467 ctccggtagc ggcggagctt ccacatccga gccctggtcc  2520
468 catgcctcca gcggctcatg gtcgctcggc agctccttgc  2560
469 tcctaacagt ggaggccaga cttaggcaca gcacaatgcc  2600
470 caccaccacc agtgtgccgc acaaggccgt ggcggtaggg  2640
471 tatgtgtctg aaaatgagct cggagattgg gctcgcaccg  2680
472 tgacgcagat ggaagactta aggcagcggc agaagaagat  2720
473 gcaggcagct gagttgttgt attctgataa gagtcagagg  2760
474 taactcccgt tgcggtgctg ttaacggtgg agggcagtgt  2800
475 agtctgagca gtactcgttg ctgccgcgcg cgccaccaga  2840
476 cataatagct gacagactaa cagactgttc ctttccatgg  2880
477 gtcttttctg cagtcaccgt ccaagcttgc ggccaattcg  2920
478 gcacgagaga gtagtagact ccctaaagag ctactacact  2960
```

RAW SEQUENCE LISTING   DATE: 09/26/2000
PATENT APPLICATION: US/09/491,974   TIME: 16:43:00

Input Set : A:\Sequence Listing.TXT
Output Set: N:\CRF3\09262000\I491974.raw

```
479 aacaagaaaa atggcaacta tggaagaaat ccagagagaa 3000
480 atcagtgctc acgaggggca gcttgtgata gcacgccaga 3040
481 aggtcaagga tgcagaaaag cagtatgaga aggatcctga 3080
482 tgacttaaac aagagggcac tgcatgatcg ggagagtgtc 3120
483 gcagcttcaa tacaatcaaa aattgatgaa ttgaagcgcc 3160
484 aacttgccga cagattgcag cagggaagaa catccgggca 3200
485 ggaccgggat cctacagggg tagagccagg tgatcatctt 3240
486 aaggaaagat cagcactaag ctacgggaat acactggacc 3280
487 tgaatagtct tgacattgat gaacctacag gacagacagc 3320
488 tgattggctg accataattg tctatctgac atcattcgtg 3360
489 gtcccgatca tcttgaaggc actgtacatg ttaacaacac 3400
490 gaggtaggca gacttcaaag gacaacaagg ggatgaggat 3440
491 cagattcaag gatgacagct catatgagga tgtcaatgga 3480
492 atcagaaagc ccaaacatct gtatgtgtca atgccaaacg 3520
493 cccaatccag catgaaggct gaagagataa caccaggaag 3560
494 attccgcact gcagtatgtg gactatatcc tgcacagata 3600
495 aaggcaagga atatggtaag ccctgtcatg agtgtagttg 3640
496 ggttcttggc actggcaaaa gactggacat cgagaattga 3680
497 agaatggctc ggtgcaccct gcaaattcat ggcggagtct 3720
498 cttattgccg ggagtttatc tgggaatcct gtgaatcgtg 3760
499 actatatcag acagagacaa ggtgcacttg cagggatgga 3800
500 gccaaaggaa tttcaagccc tcaggcaaca ttcaaaggat 3840
501 gctggatgta cactagttga acatattgag tcaccatcat 3880
502 caatatgggt gtttgctggg gcccctgata ggtgtccacc 3920
503 aacatgcttg tttgtcggag ggatggctga attaggtgcc 3960
504 ttcttttcta tacttcagga tatgaggaac acaatcatgg 4000
505 cttcaaaaac tgtgggcaca gctgatgaaa agcttcgaaa 4040
506 gaaatcatca ttctatcaat cataccctcag acgcacacaa 4080
507 tcaatgggaa tacaactgga ccagaggata attgttatgt 4120
508 ttatggttgc ctggggaaag gaggcagtgg acaactttca 4160
509 tctcggtgat gacatggatc cagagcttcg tagcctggct 4200
510 cagatcttga ttgaccagaa agtgaaggaa atctcaaacc 4240
511 aggaacctat gaaattataa gtacataaat atataatcaa 4280
512 tactaactat aggttaagaa atactaatca ttagttaata 4320
513 agaatataga tttattgaat aatcatatta aataattagg 4360
514 taagttaact agtatttagt taagttagct aattgattta 4400
515 tatgattgtc acaattaaat gtaatcataa gcacaatcac 4440
516 tgccatgtat aatcacgggt atacgggtgg ttttcatatg 4480
517 gggaacaggg tgggcttagg gccaggtcac cttaagtgac 4520
518 cttttttgt atatatggat gtagatttca attgatcgaa 4560
519 tactaatcct actgtcctct tttcttttcc tttctccttc 4600
520 tttactaaca aactacctcg tgccgaattg gccgcggatc 4640
521 ctcgcaatcc ctaggaggat taggcaaggg cttgagctca 4680
522 cgctcttgtg agggacagaa atacaatcag gggcagtata 4720
523 tgaatactcc atggagaaac ccagatctac gtatgatcag 4760
524 cctcgactgt gccttctagt tgccagccat ctgttgtttg 4800
525 cccctccccc gtgccttcct tgaccctgga aggtgccact 4840
526 cccactgtcc tttcctaata aaatgaggaa attgcatcgc 4880
527 attgtctgag taggtgtcat tctattctgg ggggtggggt 4920
```

```
528 ggggcaggac agcaaggggg aggattggga agacaatagc 4960
529 aggcatgctg gggatgcggt gggctctatg gcttctgagg 5000
530 cggaaagaac cagctggggc tcgacagctc gactctagaa 5040
531 ttgcttcctc gctcactgac tcgctgcgct cggtcgttcg 5080
532 gctgcggcga gcggtatcag ctcactcaaa ggcggtaata 5120
533 cggttatcca cagaatcagg ggataacgca ggaaagaaca 5160
534 tgtgagcaaa aggccagcaa aaggccagga accgtaaaaa 5200
535 ggccgcgttg ctggcgtttt tccataggct ccgcccccct 5240
536 gacgagcatc acaaaaatcg acgctcaagt cagaggtggc 5280
537 gaaacccgac aggactataa agataccagg cgtttccccc 5320
538 tggaagctcc ctcgtgcgct ctcctgttcc gaccctgccg 5360
539 cttaccggat acctgtccgc ctttctccct tcgggaagcg 5400
540 tggcgctttc tcaatgctca cgctgtaggt atctcagttc 5440
541 ggtgtaggtc gttcgctcca agctgggctg tgtgcacgaa 5480
542 ccccccgttc agcccgaccg ctgcgcctta tccggtaact 5520
543 atcgtcttga gtccaacccg gtaagacacg acttatcgcc 5560
544 actggcagca gccactggta acaggattag cagagcgagg 5600
545 tatgtaggcg gtgctacaga gttcttgaag tggtggccta 5640
546 actacggcta cactagaagg acagtatttg gtatctgcgc 5680
547 tctgctgaag ccagttacct tcggaaaaag agttggtagc 5720
548 tcttgatccg gcaaacaaac caccgctggt agcggtggtt 5760
549 tttttgtttg caagcagcag attacgcgca gaaaaaaagg 5800
550 atctcaagaa gatcctttga tctttctac ggggtctgac 5840
551 gctcagtgga acgaaaactc acgttaaggg attttggtca 5880
552 tgagattatc aaaaaggatc ttcacctaga tccttttaaa 5920
553 ttaaaaatga agttttaaat caatctaaag tatatatgag 5960
554 taaacttggt ctgacagtta ccaatgctta atcagtgagg 6000
555 cacctatctc agcgatctgt ctatttcgtt catccatagt 6040
556 tgcctgactc                                   6050
E--> 559 [51]
```

VERIFICATION SUMMARY   DATE: 09/26/2000
PATENT APPLICATION: US/09/491,974   TIME: 16:43:01

Input Set : A:\Sequence Listing.TXT
Output Set: N:\CRF3\09262000\I491974.raw

L:19 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:35 M:283 W: Missing Blank Line separator, <220> field identifier
L:36 M:283 W: Missing Blank Line separator, <400> field identifier
L:137 M:283 W: Missing Blank Line separator, <220> field identifier
L:138 M:283 W: Missing Blank Line separator, <400> field identifier
L:190 M:283 W: Missing Blank Line separator, <220> field identifier
L:192 M:283 W: Missing Blank Line separator, <400> field identifier
L:402 M:283 W: Missing Blank Line separator, <220> field identifier
L:404 M:283 W: Missing Blank Line separator, <400> field identifier
L:559 M:254 E: No. of Bases conflict, LENGTH:Input:1 Counted:6050 SEQ:4